WATER

by ANNA POLETTI

Lesson 1: Water is for senses

~Introduce Topic: Show a clear bottle of water. Shake it, pour a little. "Today we learn about... WATER!" Have them say "water" and make a wavy hand motion.
FEEL:
~Feeling Water Stations:
· Set up 3 bins/tubs.
1. Cold Water Bin: Add a few ice cubes and plastic sea animals. "Cold water!"
2. Warm Water Bin: Add warm (not hot) water and smooth stones. "Warm water!"
3. Texture Bin: Sponges and small towels to feel "wet" and practice "squeeze!"

SOUND:
Listening to Water:
· Gather back in a circle.
· Sound Guessing Game: Use a screen or box. Make sounds for children to guess.
· Drip, drip (use a dropper into a bowl).
· Splash (drop a small toy in water).
· Pour (pour water from a height).
· Children mimic the sounds and actions.
· play rain and water in nature sounds on the speaker (children move with the flow/how they feel)

LOOK:
~have a fre transparent containers filled with water, pour different things in them and see hoe the water changes (clear, can have color (add food coloring), see through ↓
~Water magic (arrows <- to ->)
Story Time: Read "Water" by Frank Asch

Lesson 2: The Magical Changes of Water

Part 1: The Shape-Shifter Water
· Song: Start with a familiar water song.
· Introduction: "Today, our water is MAGIC! It can CHANGE. Watch..." Pour water from a pitcher into a tall cup, then a flat bowl. "Did it change? YES! It changed its SHAPE!"

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Activity 1: Shape Detective Mission

· Setup: Water table or several tubs filled with a little water. Provide 5-6 different clear containers (tall vase, wide bowl, square tub, cylinder, star-shaped mold, circle square rectangle ...).

· Task: Children use cups to pour water from one container to another.

Activity 2:

·avtivity connecting to water, water can be rain and snow

Part 2: The Temperature Transformer Water (ice)

Activity 3: The Great Ice Rescue

· Setup: Freeze small toys (plastic animals, beads) inside ice cubes or a large block of ice.

· Mission: "Oh no! The toys are trapped in ICE! Ice is water that is very, very COLD. How can we FREE them?"

· Exploration: Provide safe tools: spray bottles with warm water, salt in shakers, small cups of warm water, and spoons.

· Observation: "Look! The ice is getting wet... it's MELTING! The cold ice is changing into water." Focus on the word melt.

· Conclusion: "We used WARM to change ice (solid) into water (liquid)."

Activity 4: Hot Water Magic (steam)

· Setup: Electric kettle (transparent if possible), a clear heat-safe bowl, and a mirror or metal tray.

· Demo:

1. Show warm water in a clear cup. Let them feel the outside. "Warm water."
2. Pour hot (but not boiling) water from the kettle into the bowl.
3. Hold a mirror over the rising steam. "Look! The hot water is making STEAM. The water is disappearing into the air! This is called evaporation."

Explanation: "Ice is cold and hard. Water in the middle can flow. Steam is hot and flies away."

Game: "Water Change Freeze Dance" (or TPR+chant)

· Play music. Call out states:

· "ICE!" → Children freeze like solid ice cubes.
· "WATER!" → Children "melt" and flow/sway like liquid.
· "STEAM!" → Children tiptoe and wiggle fingers upward, rising into the air.

Intake on the lesson: cold makes _____ (ICE). Warm makes it _____ (MELT). Hot makes it _____ (STEAM/DISAPPEAR).

Outdoor activity: ice to boiling water outdoor

· gather sticks leaves branches for fire
· start the fire
· show and touch the ice
· put it in the pot and see what happens
· play games and chants around the fire till the water boils
·the kids can put small mirrors (or magnigying glasses) over the pot to see the steam

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Lesson 3: Water does things

· Introduce Topic: ask questions

WE DRINK IT

~pour some water in a cup and drink it

WATER GROWS THINGS:

~review how a seed needs water to grow into a plant

WATER MOVES:

~pour some water on the table (splash-drip, use your hands, squirt some on the kids) push the water forwarn and let it fall on the floor, make it fun and messy for the kids

WATER CLEANS

Show a clean toy and a dirty toy (Can we wash it? Yes! what do we need? Water!)

Washing Station:

· Set up a large bin/tub as a "washing station" with warm soapy water (baby shampoo). Provide sponges, brushes, and drying towels.

· Give each child a "dirty" toy (plastic animal, car, doll).

· Guide them: "Wash your car!" "Scrub, scrub." "Rinse." "Now it's clean!"

Bubble Break:

· song: pop pop pop the bubbles (sing then blow bubbles for children to pop. "Pop the bubbles! Bubbles are from water and soap!")+

If possible: school bus /school windows washing

Lesson 4: Water Detectives - Where Can We Find Water?

Hello Song & Detective Warm-Up:

· "Hello, Detectives!" song(?). Give each child a magnifying glass.

· Teach the detective pose: hand on chin, thinking face. "We are looking for... WATER!"

Introduction Mystery:

· Hold up a cup of water. "We know this is water. But WHERE ELSE can we find water?"

· Play "Water Sounds" audio. "Shhh! Detectives listen! What do you hear? Rain? A river? A tap?"

· Introduce our 3 investigation areas: INDOOR (point to classroom home corner), OUTSIDE (point to window), SKY (point up).

Part 2: water INDOOR

· use the magnifying glasses to find water inside the classroom

· sit back down and show pictures of the places with water inside the classroom and check if they found them all (first close up-guess, then show the full picture)

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Part 3: water IN THE SKY

· review weather (focus on rain)

Cloud & Rain Science Art:

· Rain Cloud Demonstration: Use a clear jar filled with water. Top with shaving cream "cloud." Drop blue food coloring on top. Watch as "rain" falls through the cloud. "Clouds hold water! When they get full... rain!" (divide the children in 3 groups and try the experement themselves)

Part 4: Water OUTSIDE

review this week's vocabulary (ocean, lake, river, waterfall)

· show pa icture of a river that flows into a lake and (with the help of pictures) explain how to build the plumbing system

· go to the sandbox and let them make one themselves!

· outdoor plumbing system (sandbox) →river to lake

Lesson 5: Playing with water

· Song: "Row, Row, Row Your Boat" (use sticks for rhythm to learn the song, then as oars

· Introduce Topic: Show a small plastic boat and a stone in a clear tub. "Look! The boat is on the water. It FLOATS. The rock goes down. It SINKS."

Prediction Game:

· Show a "Mystery Bag" with 5-6 objects (cork, plastic block, metal spoon, key, sponge, orange).

· Hold up each item. Ask: "Sink or float?" Let children shout or use thumbs up/down. Don't correct, drop the items in the tub and find out together!

Testing Station:

·set up more tubs

· let the kids go around the classroom and collect different objects to put in the tub (sink or float)

Movement Break:

· Sink/Float Movement: Call out "FLOAT!" (children stretch up tall and light on toes), "SINK!" (children crouch down low).

Make a Boat :

· Provide pre-cut foam pieces. Children stick a play-doh ball and a toothpick flag into it to make a simple "boat.", let them decorate the boat.

· Let them test their own boat in the pool!

(中班 can join with eggs)

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Lesson 6: Water's Wonderful Journey - The Water Cycle

Story:

· Use the droplet puppet and pictures [sun, raindrops (many, single drops), cloud, lake].

1. "Droppy is in a lake. The SUN comes out! (Hold up sun). It gets warm. Droppy gets so light, he floats UP, UP, UP into the sky!" (Move Droppy up). "This is called evaporation – a big word for 'going up!'"

2. "In the cold sky, Droppy meets millions of friend droplets. They huddle together and make... a CLOUD!" (Put Droppy on cloud then add more and more droplets). "This is condensation – a big word for 'getting together!'"

3. (put more droplets on the cloud) "The cloud gets too full! Droppy and his friends hold hands and fall down, down, down as... RAIN!" (Let some drops down, then move Droppy down,). "This is precipitation – a big word for 'falling down!'"

4. "Droppy lands back in the lake... and the SUN comes out again! His trip never ends!"

Part 2: See the Cycle!

Experiment:

· You Need: Large glass jar, hot water (for teacher), ice cubes in a ziplock bag, aerosol hairspray (or matches for teacher only).

· Steps:

1. Teacher pours hot water in jar (1/4 full). "This is the warm sea/lake. The sun heats it!"

2. Quickly place the bag of ice on top of the jar lid. "This is the cold sky!"

3. Spray a tiny bit of hairspray into the jar (or have a lit match ready to drop in and extinguish it). "These are tiny bits for the water to stick to!"

4. Watch: A cloud forms inside! Then "rain" (drips) will fall down the sides. "Look! The water went up, made a cloud, and now it's raining! A tiny water cycle!"

Part 3: chant

· water-sun-up, up, up-cloud-cold-down, down, down

Part 4: song (wheels on the bus)

· The water in the cycle goes up, up, up...

· The droplets in the cloud go 'round and 'round...

· The rain from the clouds goes down, down, down...

· And the lake on the ground says “Splish, splash, splosh!"

Part 4: craft "My Water Cycle Necklace"

1.Instructions with Story: Gather children. Hold up each bead and tell the story:

· "First, the SUN (yellow bead) shines. It warms the water UP!"

· "The water goes up and makes a CLOUD (white bead)!"

· "The cloud gets full and makes RAIN (blue bead) fall DOWN!"

· "The rain makes a PUDDLE (green bead with a blue dot) on the ground, ready for the sun again!"

2. Making the Necklace: Children string the beads in order.（Sun first... then cloud... then rain... then puddle）

3.Wearing: Teachers tie the necklaces securely. Children put them on. Have them point

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to each bead and say the chant
Part 5: goodbye
· Gather around in a circle and review the water cycle (chant or/and song)

Lesson 7: Water Safety Superheroes!

Introducing "Safe" vs. "Not Safe"

· Introduce the words Safe (thumbs up, big smile) and Not Safe/Danger (thumbs down, angry/sad face).

· Quick Game: Flashcard Sort. Hold up pictures (e.g., wearing a seatbelt, touching a hot stove). "Safe or Not Safe?" Thumbs up/down.

Rule 1 - We Drink CLEAN Water

Visual Demo:

· Show the two pitchers. "Look. This water is CLEAN. We can drink it. This water is DIRTY. We cannot drink it. Yucky!"

· Let each child get their cup, the teacher pours a little CLEAN water into their cup. Say: "Clean water. Good to drink. Cheers!"then drink it together.

· put the cus away (fast)

Song & Action:

· Sing to the tune of "Frère Jacques":

· "Clean water, clean water,

· Yes, yes, yes! Yes, yes, yes!

· Dirty water, dirty water,

· No, no, no! No, no, no!"

Rule 2 - Water & Electricity are DANGEROUS Friends

· Point to a wall outlet ("This is ELECTRICITY. It gives power. But WATER and ELECTRICITY are dangerous friends. They are NOT SAFE together.")

· Show the Danger sign.

· Super Simple "Science" Experiment:

· Prop: A battery pack (e.g., 2 AA batteries) connected to a small LED light bulb with wires. The wires have two loose ends.

· Demo: Show the light is OFF. Touch the two wire ends together in the air—light stays OFF. Now, dip the two wire ends into a cup of clean water—the light turns ON (water completes the circuit).

· Teacher says: "Wow! See? Water makes the electricity move! If my hands were wet and I touched a plug... ZAP! Danger! Not safe!" (Use big eyes and a serious but not scary tone).

· Place the Danger sign on the wall by an outlet (have a spray bottle, pretend to spray water near the outlet. Class shouts: "not safe")

Rule 3 - We wipe up spills so we don't slip!

"Wipe the Spill" Race

· Setup: Create a few "spills" on the floor.

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· Game: Divide children into teams. Give each team a small towel. Say "GO!" One child from each team runs to their "spill," wipes it with the towel,
runs back, and tags the next friend.
· Chant: "We wipe up spills so we don't slip!"

Rule 4 - Pool & Beach Safety with Grown-ups

Dramatic Play Setup:

· Lay out a tub and pretend it's a pool/beach.
· "Look! It's a pretend pool/beach! Is it fun? Yes! But we need to be safe."

· Role-Play Scenarios:

· Safe Scenario: Teacher holds a doll. "I am a Mommy. My baby wants to swim. First, put on a swimsuit! Then, I hold my baby's hand. We go in the water together. Safe!" Let children take dolls and practice walking with them to the "pool."
· Not Safe Scenario: Have a doll run alone towards the "pool." Class shouts: "STOP! Wait for mommy!"

Review & Become a Water Safety Superhero!

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